

IN THE CLAIMS

Claims 1-5 (Cancelled).

Claim 6. (Currently Amended) A method for manufacturing a cylindrical ring with beads, comprising the steps of:

disposing a metal mold adjacent to the outer circumference or the inner circumference of a closed metallic base ring, the metal mold having a molding face that faces the base ring and having grooves for forming the beads on the molding face along the circumferential direction;

disposing a coil for electromagnetic forming at the opposite side of the metal mold such that the base ring is interposed therebetween;

applying a momentary large current to the coil in this arrangement; ~~and~~

deforming the base ring by pressing the base ring toward the molding face of the metal mold such that the base ring is molded into a shape corresponding to the molding face by electromagnetic forming, wherein an inner roll and an outer roll whose ~~of which~~ outer dimensions are finished with a required accuracy are prepared; and

correcting the cylindrical ring with the beads molded into the shape corresponding to the molding face by electromagnetic forming ~~is corrected~~ by rotating the rolls while interposing the cylindrical ring between the inner roll and the outer roll.

Claim 7. (Cancelled).

Claim 8. (Currently Amended) A method for manufacturing a cylindrical ring with beads, comprising the steps of:

disposing a metal mold adjacent to the outer circumference or the inner circumference of a closed metallic base ring, the metal mold having a molding face that faces the base ring and having grooves for forming the beads on the molding face along the circumferential direction;

disposing a coil for electromagnetic forming at the opposite side of the metal mold such that the base ring is interposed therebetween;

applying a momentary large current to the coil in this arrangement; and

deforming the base ring by pressing the base ring toward the molding face of the metal mold such that the base ring is molded into a shape corresponding to the molding face by electromagnetic forming, wherein the metal mold has a circular cutting blade vertical to the axial direction; and

~~the cutting blade cuts~~ cutting the base ring using the cutting blade when the base ring is pressed toward the molding face of the metal mold.

Claim 9. (Currently Amended) The method for manufacturing the cylindrical ring with the beads according to claim 6, wherein at least one of the inner roll and the outer roll has a cutting blade; ~~and the cutting blade cuts,~~ including the step of using the cutting blade to cut the cylindrical ring with the beads when the cylindrical ring with the beads is pressed toward the roll having the cutting blade.

Claim 10. (Original) A method for manufacturing a cylindrical ring with beads, comprising the steps of:

disposing a metal mold adjacent to the outer circumference or the inner circumference of a closed metallic base ring, the metal mold having a molding face that faces the base ring

and having grooves for forming the beads on the molding face along the circumferential direction;

disposing a coil for electromagnetic forming at the opposite side of the metal mold such that the base ring is interposed therebetween;

applying a momentary large current to the coil in this arrangement; and

deforming the base ring by pressing the base ring toward the molding face of the metal mold such that the base ring is molded into a shape corresponding to the molding face by electromagnetic forming, wherein the base ring has a large number of holes in the circumferential wall.

Claim 11. (Original) The method for manufacturing the cylindrical ring with the beads according to claim 10, wherein the large number of holes are formed in the base ring along the circumferential direction at positions where portions of the base ring enter the interior of the grooves from the exterior of the grooves of the molding face of the metal mold in electromagnetic forming.

Claim 12. (Original) The method for manufacturing the cylindrical ring with the beads according to claim 10, wherein the large number of holes are formed in the base ring along the circumferential direction at both end portions of the base ring in the axial direction.

Claim 13. (Original) A method for manufacturing a cylindrical ring with beads, comprising the steps of:

disposing a metal mold adjacent to the outer circumference or the inner circumference of a closed metallic base ring, the metal mold having a molding face that faces the base ring

and having grooves for forming the beads on the molding face along the circumferential direction;

disposing a coil for electromagnetic forming at the opposite side of the metal mold such that the base ring is interposed therebetween;

applying a momentary large current to the coil in this arrangement; and

deforming the base ring by pressing the base ring toward the molding face of the metal mold such that the base ring is molded into a shape corresponding to the molding face by electromagnetic forming,

wherein a large number of projections are formed in the molding face of the metal mold along the circumferential direction at positions nearest to the base ring;

a large number of holes are formed in the base ring along the circumferential direction at positions corresponding to the projections; and

the projections are fitted into the holes when the metal mold is put in position.

Claim 14. (Original) The method for manufacturing the cylindrical ring with the beads according to claim 13, wherein the projections are formed between two adjacent grooves on the molding face at the central position of the molding face of the metal mold in the axial direction; and the holes are formed at the central position of the base ring in the axial direction.

Claims 15-18. (Cancelled).

Claim 19. (Original) A metal mold for molding a cylindrical ring with beads by electromagnetic forming, comprising:

a ring-shaped molding face on the inner surface or the outer surface; and

grooves for forming the beads on the molding face along the circumferential direction, wherein the metal mold has a circular cutting blade vertical to the axial direction of the molding face.

Claim 20. (Original) A metal mold for molding a cylindrical ring with beads by electromagnetic forming, comprising:

a ring-shaped molding face on the inner surface or the outer surface; and
grooves for forming the beads on the molding face along the circumferential direction, wherein the metal mold further has a large number of positioning projections on the molding face along the circumferential direction at positions nearest to the base ring to be molded.

Claim 21 (Cancelled).